**Welcome to Matter and Energy!**

**COURSE:** Matter and Energy

**TEXT:** Hsu, Dr. Tom (2005). *Foundations of Physical Science, (2nd Ed)*. Cambridge Physics Outlet.

**GOALS:** The general goal of this course is to provide you with the tools to necessary to be successful in life. The specific skills listed below have been identified by industry, business, universities and society as being critical for success. You will be offered numerous opportunities throughout the semester to help you acquire and improve these skills as you learn the major concepts of chemistry.

1. Communication skills: verbal presentation skills, and clear writing skills.

2. Collaborative team work skills: abilities to teach, listen, and work productively with others.

3. Creative and design skills: critical to continue our innovative role in the world.

4. Learning skills: frequent re-training throughout your life will require efficient learning skills.

5. Quality: doing quality work in any job you do.

6. Critical thinking and decision-making skills: basing important decisions on critical analysis of facts.

7. Setting goals: giving your life a plan and structure virtually assures success.

9. Understanding Topics in Physics and Chemistry: current concepts of the nature of science and Chemsitry.

**REQUIRED MATERIALS:**

Science Notebook (you will be provided with one, replacements are $1.00)

Pencil or Pen

Highlighter

**Learning Targets for** THIS COURSE:

* I can define Newton’s Laws of Motion and relate them to everyday life
* I can create a complete electrical circuit
* I can explain how energy is transformed into different forms
* I can explain why atoms have a definite structure
* I can define heat and relate it to the various ways for transferring heat
* I can identify the major properties of water
* I can demonstrate proper use of science process skills

**GRADES:** Your grade will be calculated by dividing the total points you earn by the total points possible for each learning target. Grades will be earned according to the following percentages:

\*\* BE SURE TO SAVE YOUR RETURNED PAPERS in case you ever have to prove you did them. You will be expected to keep all of your work for the semester. This will help in reviewing for exams!

A: 90-100%

B: 80-89%

C: 70-79%

NG: 40-69% (Not passing learning targets and will have to do academic intensive)

F: <40%

**KUSD syllabus http://www.kusd.edu/media/pdf/science\_pg/high/syllabus\_matter\_energy.pdf**

**Quarter 3 and 4 Final EXAM:** All students will take a cumulative exam that will count towards 15% of the quarter grade.

**HOMEWORK:**

1. Homework is due at the beginning of the period. Turn it into your class’s box.
2. If you are absent the day an assignment is due, it must be submitted the day you return.
   1. You must write **LATE** on the top of your paper.
3. The opportunity to submit late work expires at the end of the respective unit.

**ABSENCE POLICY:**

1. It is your responsibility to come before or after an absence to get homework and assignments.
2. You will have three days to complete missed work for an excused absence, if you were absent longer, more time will be arranged.
3. When you submit an assignment after the due date because you were absent, you must write **ABSENT** at the top of your paper to receive full credit.
4. If you miss a test or quiz because of an excused absence, you must come to the next class prepared to take it.

**PROCEDURES:**

1. **Entering the Room –** Immediately retrieve supplies, pickup handouts from table and, if necessary, sharpen your pencil. Then sit in your assigned seat and complete the Warm-Up
2. **Warm-Up –** You will have 5 minutes to complete the bell ringer found on the front white board. Bell ringers will be collected and, when graded, will be worth 5 points each.
3. **Tardy Policy –** You are tardy if you are not in your assigned seat when the bell rings. If you are late, quietly take your place and do not disrupt the class.
4. **Bathroom –** As per Reuther policy, no passes will be issued the first and last 15 minutes of class. In order to minimize class disruptions, you are expected to take care of your “biological” needs before or after class. Consequently, bathroom passes will be issued on a *very limited basis.*
5. **Staying Seated –** You are expected to stay in your seat during instructional time. You are expected to stay with your group during group work time.
6. **Food & Beverage** – Water in closed containers are approved for this classroom. NO FOOD ALLOWED! You must clean up after yourself. If this is abused, I can revoke the privilege.
7. **Late & Absent Work –** To turn in late or make-up work be sure to “LATE” or “ABSENT.” Then place it in the appropriate bin. DO NOT place on teacher’s desk.
8. **End of Period** – *Never* line up at the door! You must be in your assigned seats and wait to be dismissed before leaving. Often an end of period lab or activity check is necessary, or there may be a special announcement. Please push your chair under desk as you leave.

**CONTACT INFORMATION:**

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**The course is designed to utilize the Internet for class materials, downloads, homework assignments and communication. In order to accommodate students with limited computer access/internet access; please let me know if your student does not have access to the Internet at home. I will make every effort to accommodate students who do not have access to computers, but can only do so when I know about the situation.**

<http://ratelisscience.wikispaces.com/>